



*City of Annapolis*

**DEPARTMENT OF NEIGHBORHOOD & ENVIRONMENTAL PROGRAMS**

160 Duke of Gloucester Street, Room 202, Annapolis, Maryland 21401

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Maria Broadbent  
DIRECTOR

June 13, 2014

Pete V. Millits, P. E., LEED AP  
McLaren Engineering Group  
601 Pratt Street, Suite 302  
Baltimore, MD 21202

RE: Review of the June 2, 2014 GRD14-0006, Aris T. Allen Blvd., Phase I

Mr. Millits,

Following are comments from the Dept. of Neighborhood and Environmental Programs regarding the grading permit application for Phase I of the Aris Allen Blvd. development:

**Stormwater Management:**

1. In the computations for MB-3,  $R_v$  is shown to be 0.53. Using  $R_v = 0.05 + (0.009 * I)$ , this should be 0.52. Please revise and update the computations.
2. The dry well on Lot 27 has a tree located almost directly above it.
3. The dry well on Lot 31 close to the intersection of Yawl Road and Private Alley North has the proposed utilities to the house within close proximity to the downspout connection. Additionally, a tree is near to the drywell and the tree is located directly above the pipe from the cast in place trench drain, structure 14A, to the micro bioretention area MB-5.
4. The dry well on Lot 48 located closest to Lot 47 on Yawl Road has the downspout connection crossing the utility connection to the house. There might be potential conflicts with these crossings.
5. The two dry wells located on Lot 48 along Yawl Road have trees proposed to be planted almost directly on top of the dry wells.
6. There is no pipe profile for the sections of pipe that collect runoff at the cast in place trenches to the micro-bioretention areas. 14A to MB-5 and 34 to MB-3 specifically. The pipe profile should include the length of the trench so the contractor knows exactly the slope of the trench drains.
7. The pipe material and size selected for 14A to MB-5 is not shown on the plans.
8. The outfall of the pipe from 14A to MB-5 does not have any rip-rap or outfall protection provided.
9. The pipe material selected for 34 to MB-3 is a 10" PVC. Please indicate what schedule of PVC and if the pipe being buried under the roadway will require some structural stabilization.
10. The sequence of construction shows the storm drain system being constructed in Phase 1 from structure 1 to structure 11 with a temporary riprap outfall downstream from structure 1. The plans show the pipe extending past structure 11 and being blocked off. Phase II and Phase III never mention completing the storm drain system or the construction of the step pool system. It is the City of Annapolis preference that this pipe system is not online unless the contributing drainage areas are stabilized or going through a sediment trap. Please update the sequence to match the plans and this comment.



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11. The step pools at the point of stormwater discharge are adequate for Phase I only. A stream restoration plan will have to be implemented downstream from the outfall as part of Phase II development.

Please note that the section of the Stormwater Management Report entitled "Part 1 & Part 2 Development" was not reviewed at this time since it will be submitted when Part 2 of this development will be submitted.

**Sediment and Erosion Control:**

1. Sections of the storm drain system will need to be capped/blocked to prevent sediment laden runoff from bypassing the sediment trap. A red line amendment to the plan is acceptable.

**Trees:**

1. Reference to FCP Note on Sheet C8.00, the limit of disturbance (LOD) will need to be staked and walked by City staff, a Licensed Tree Care Expert, and a Civil Engineer as part of the pre-construction meeting. Any changes to the LOD will be noted on a revised Sheet C8.00 prior to the start of construction. Only the final LOD for the entire development is applicable for this requirement. However, please pay particular attention to trees # 66, 68 and 92 for potential impacts from clearing.

2. A detailed strategy for controlling competing vegetation, particularly invasive species, for a four year period from completion of Part 1 will need to be submitted within three months of the issue of a grading permit.

3. Any revisions to the landscape plan will require a revised landscape cost estimate which will be used to determine the landscape bond.

Please contact me if you have any questions.

Sincerely,

Frank Biba, AICP, LEED AP  
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Dept. of Neighborhood and Environmental Programs  
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[fjb@annapolis.gov](mailto:fjb@annapolis.gov)

cc: Gary Elson, Acting City Attorney  
Maria Broadbent, Director DNEP